

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

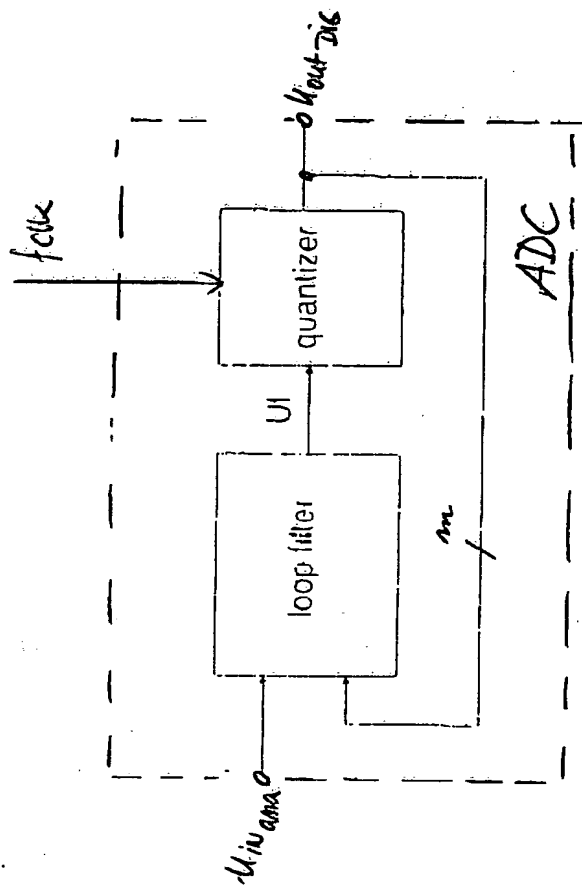
Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

*copy MARKS*

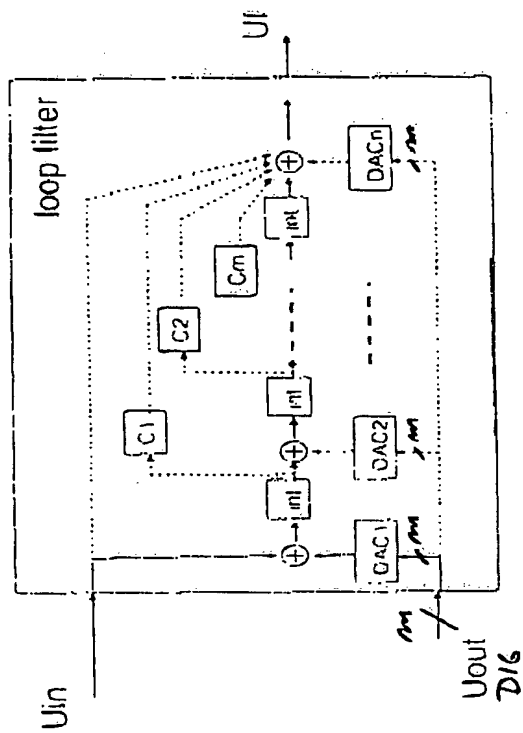
**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



State of the  
art

Fig 1



State of the  
art

Fig 2

# Continuous Time Sigma Delta ADC

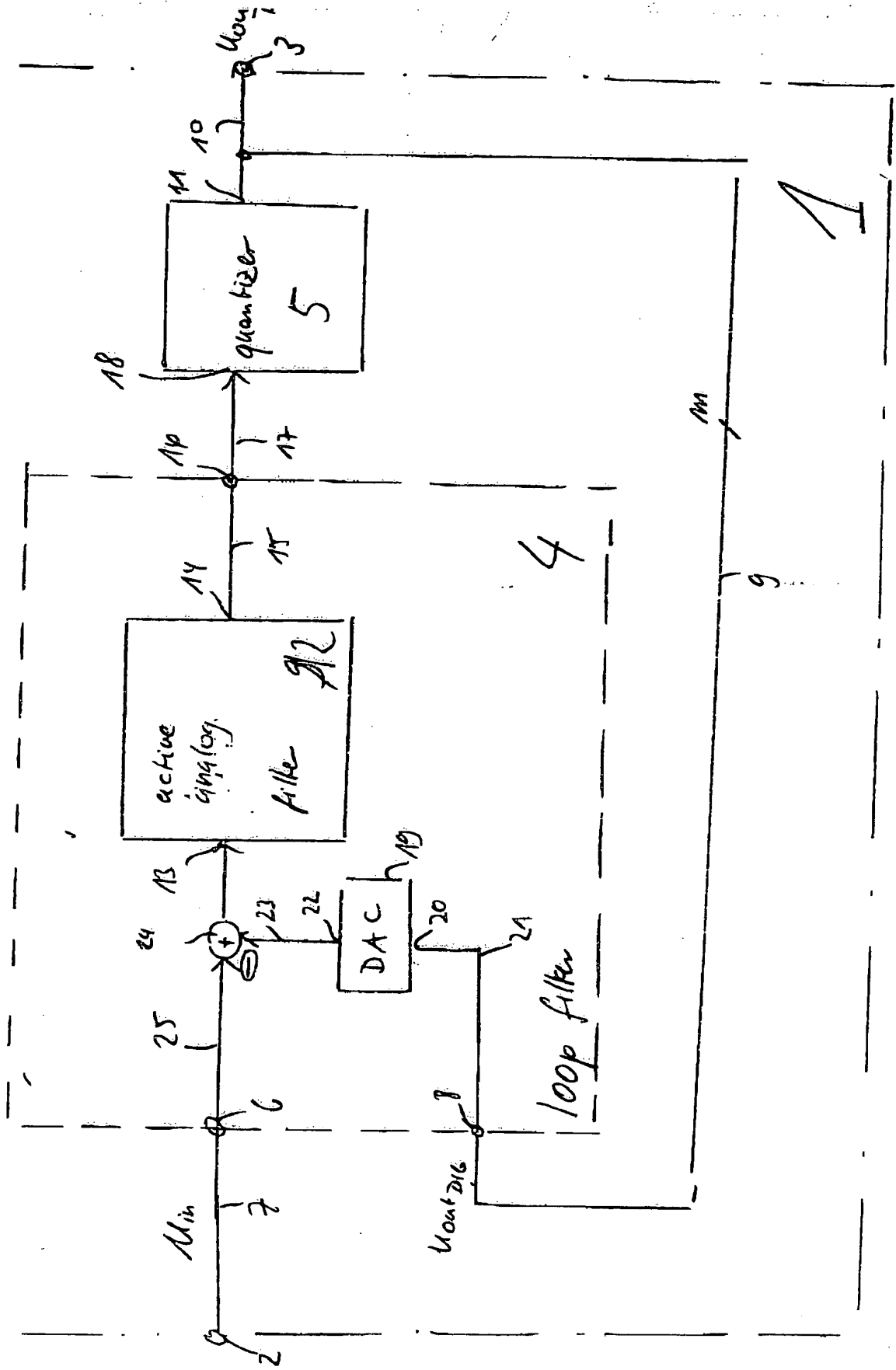
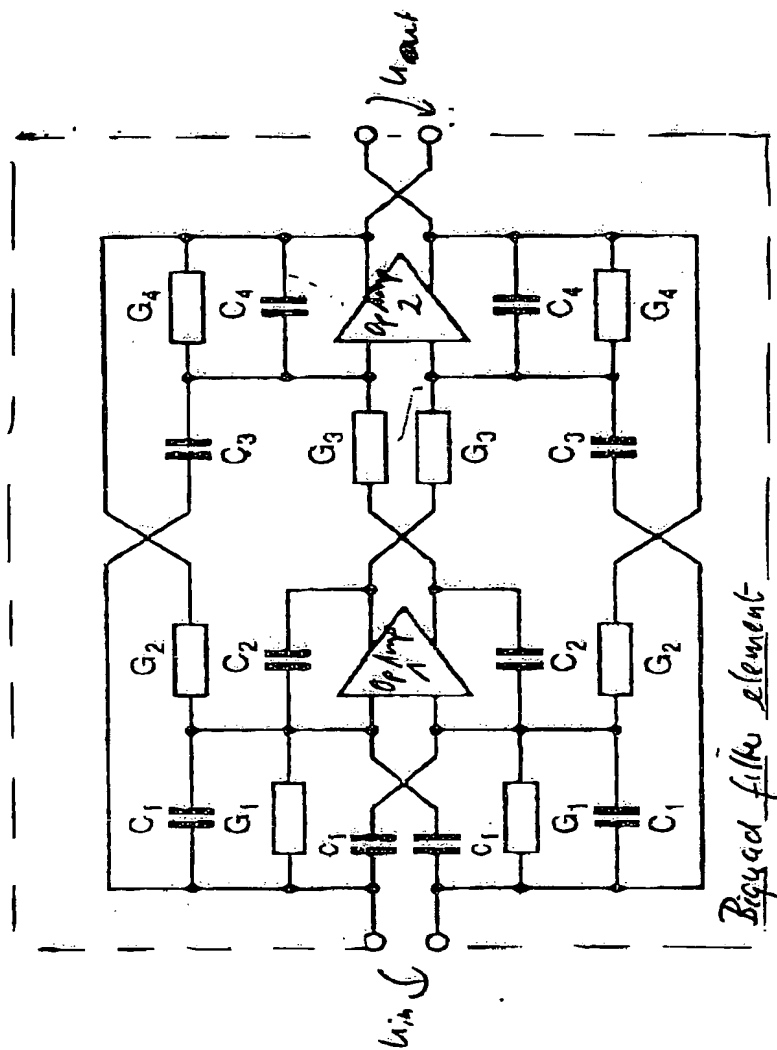


Fig 3



BiQuad filter element

Fig 4

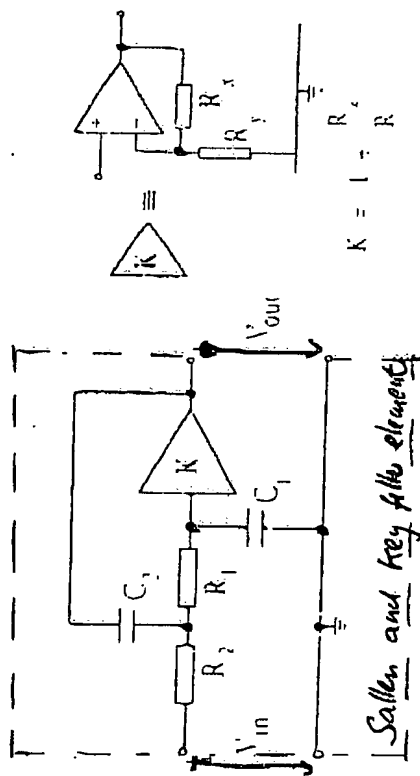


Fig 5

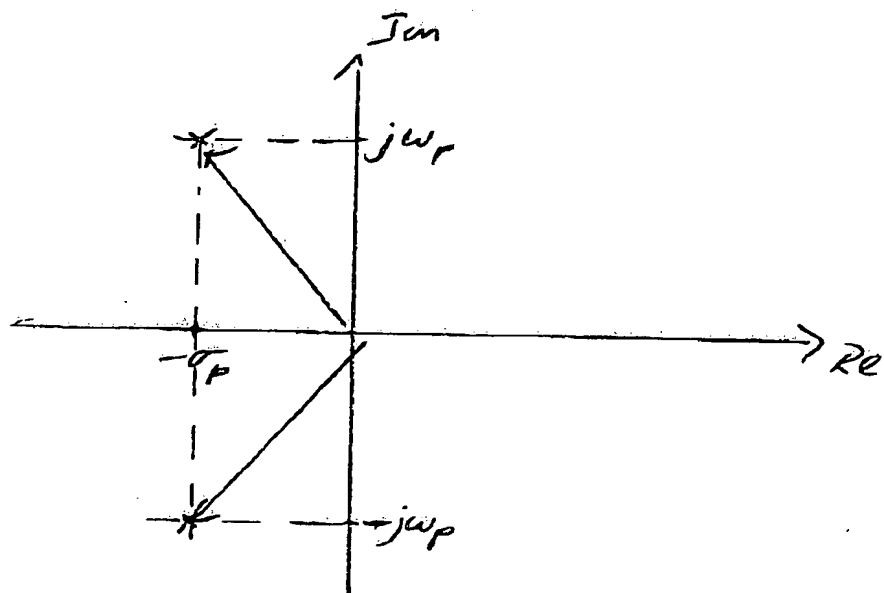


Fig. 6

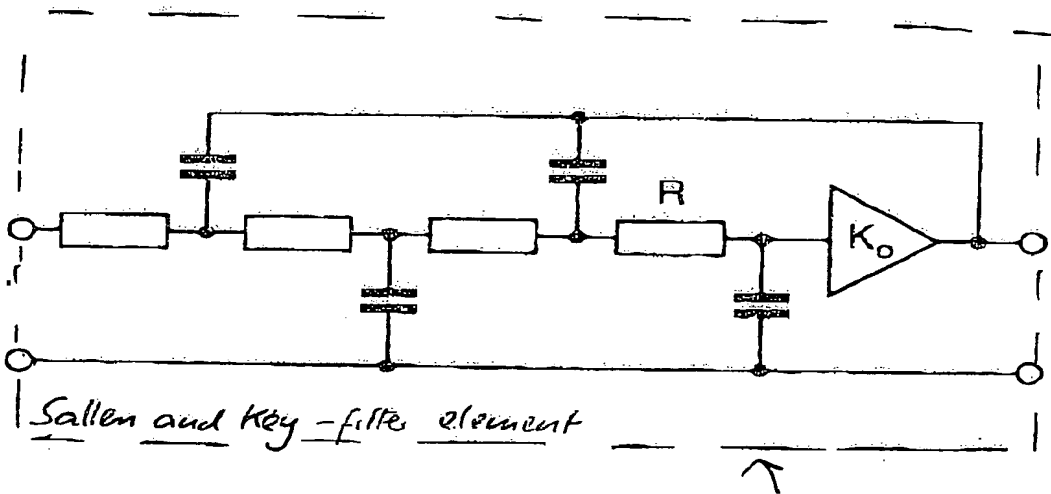


Fig. 7



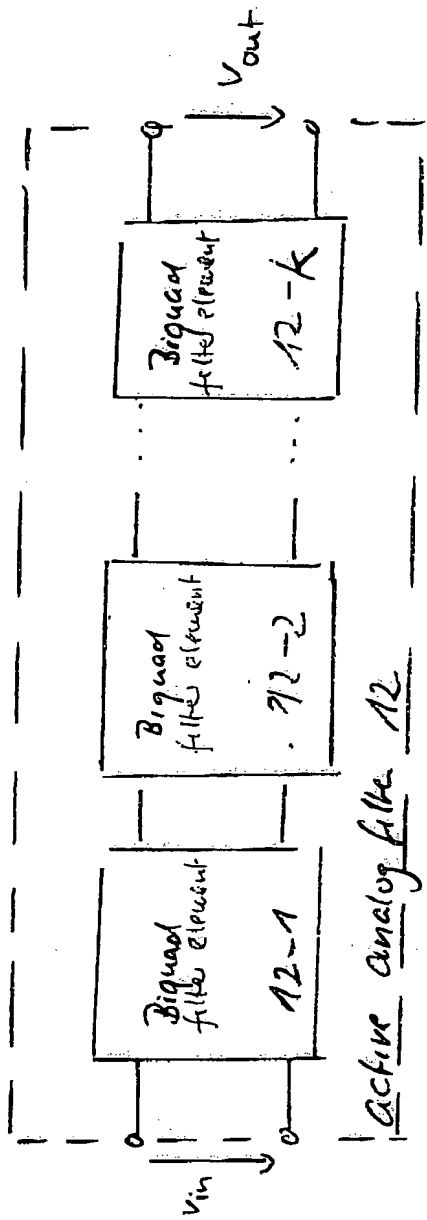


Fig. 8

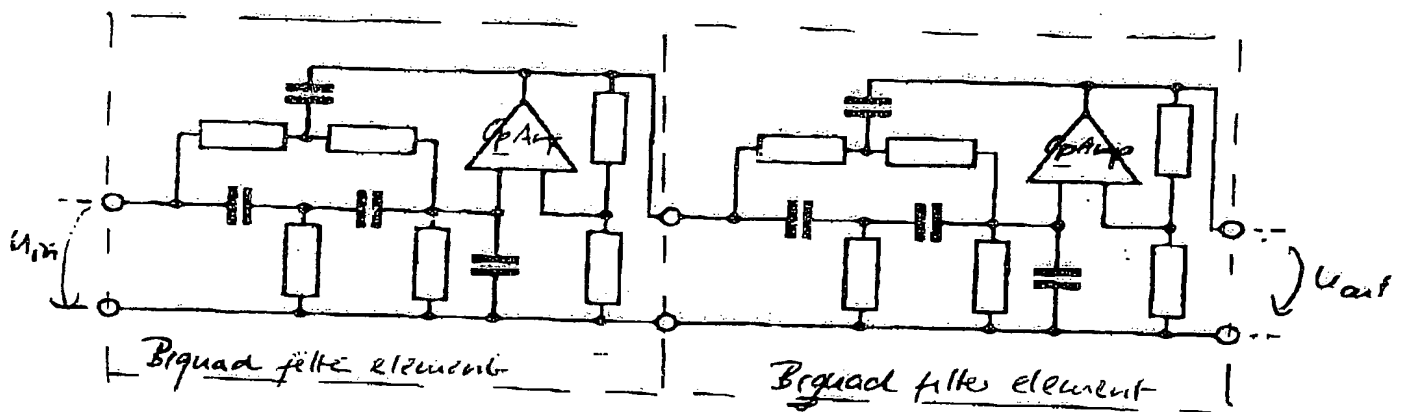
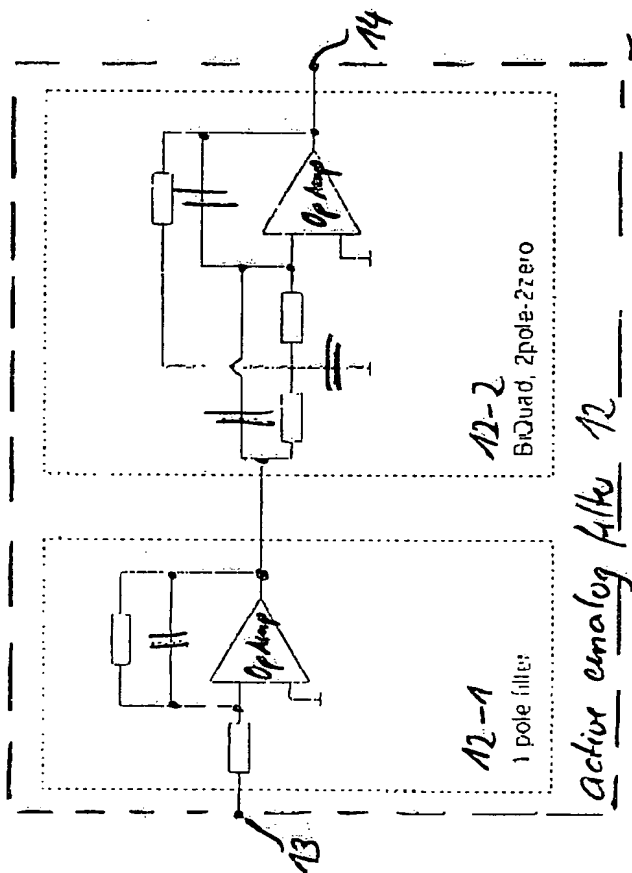


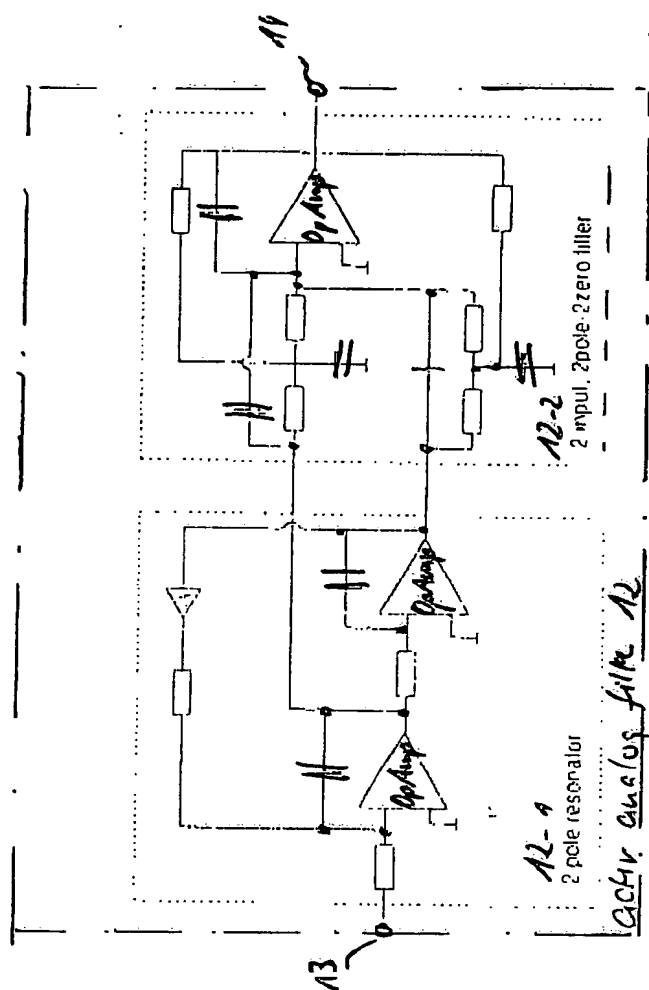
Fig. 9

↑  
4<sup>th</sup> order active  
analog filter 12  
(k=2) (N=4)



3rd order active  
analog filter  
( $k=2$ ,  $N=3$ )

Fig. 10



4th order, active  
analog filter  
( $k=2, N=4$ )

Fig. 11

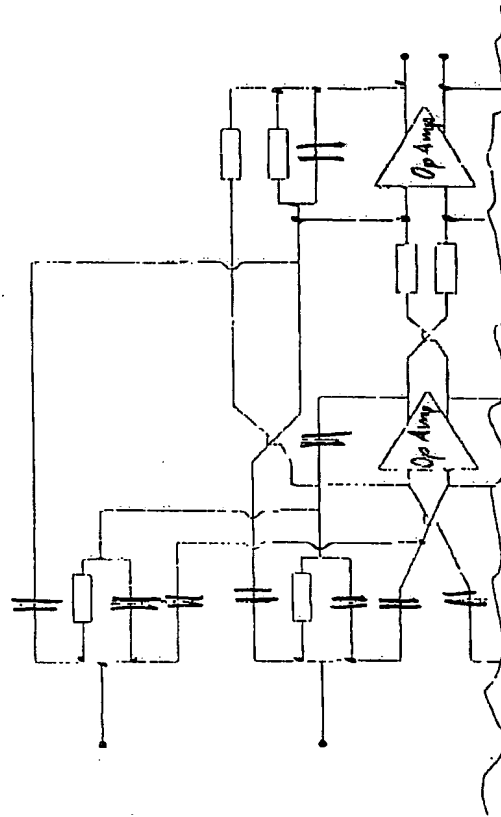


Fig 12

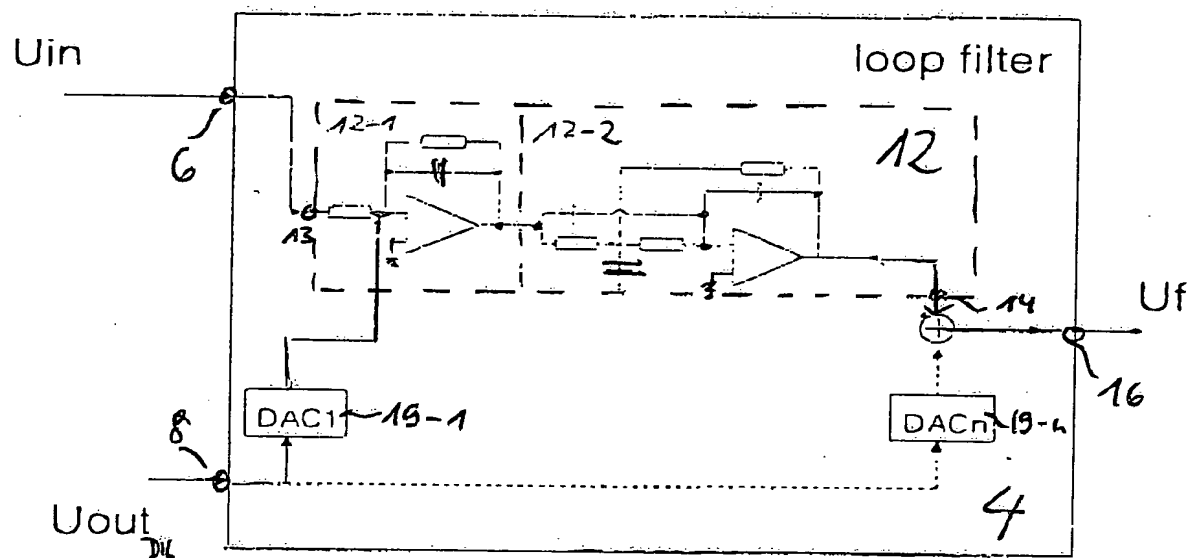


Fig 13

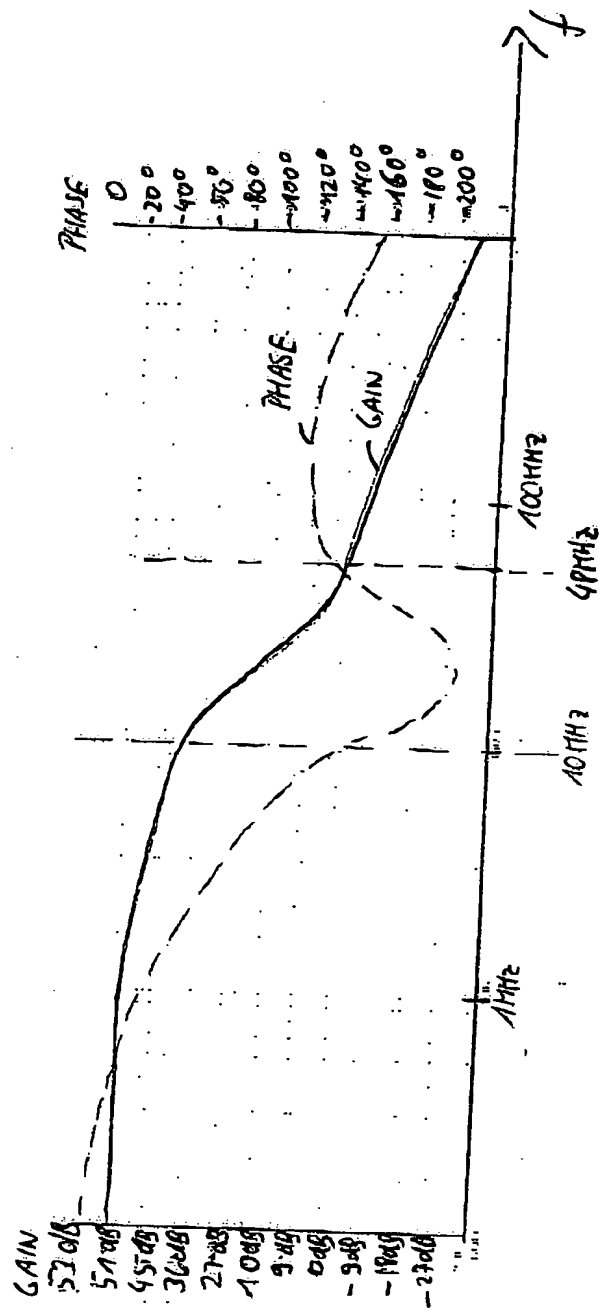


Fig 14